

Listing of Claims:

1. (previously presented) A method for regulating a jitter buffer for buffering a data packet stream comprising:

 registering a transmission delay due to buffering for the
 data packets of the data packet stream;

 continuously deriving weighted mean delay values from
registered transmission delays, wherein a shorter transmission delay is weighted higher than a
longer transmission delay; and

 regulating a read-out speed of the jitter buffer as a function of the
continuously derived weighted mean delay values so that said values are adjusted as a regulating
variable to a predefined desired delay;

 comparing a currently registered transmission delay with a previously derived weighted
mean delay value;

 determining a weighting of the currently registered transmission delay as a function of a
result of the comparing, wherein the currently registered transmission delay is weighted with a
first predefined weight value if the currently registered transmission delay is shorter than the
previously derived weighted mean delay value and is weighted with a second predefined weight
value if the currently registered transmission delay is longer than the previously derived
weighted mean delay value, with the first weight value being larger than the second weight
value, and further wherein a quotient of the first predefined weight value and the second
predefined weight value is selected to define a tradeoff between a delay introduced by the jitter
buffer and a data packet loss rate.

2. (previously presented) A method according to Claim 1, wherein a new weighted mean delay
value is derived from a previously derived weighted mean delay value and a currently registered
transmission delay.

3-4. (cancelled)

5. (previously presented) A method according to Claim 1, wherein the regulating variable is regulated by a single regulating circuit.
6. (previously presented) A jitter buffer regulating circuit for regulating a jitter buffer for buffering a data packet stream comprising:
- a registration device for registering a transmission delay due to buffering of a respective data packet of the data packet stream;
 - a mean-forming device for continuously deriving weighted mean delay values from registered transmission delays, with higher weighting of a shorter transmission delay compared to a higher transmission delay; and
 - a regulating device for adjusting the continuously derived weighted mean delay values to a predefined desired delay by regulating a read-out speed of the jitter buffer as a function of the continuously derived weighted mean delay values,
- wherein a currently registered transmission delay is compared with a previously derived weighted mean delay value, and the weighting of the currently registered transmission delay is determined as a function of the result of the comparison,
- wherein the currently registered transmission delay is weighted with a first predefined weight value if the currently registered transmission delay is shorter than the previously derived weighted mean delay value and is weighted with a second predefined weight value if the currently registered transmission delay is longer than the previously derived weighted mean delay value, with the first weight value being larger than the second weight value, and
- wherein a quotient of the first predefined weight value and the second predefined weight value is selected to define a tradeoff between a delay introduced by the jitter buffer and a data packet loss rate.
7. (previously presented) A method according to Claim 2, wherein a currently registered transmission delay is compared with a previously derived weighted mean delay value, and the weighting of the currently registered transmission delay is determined as a function of the result of the comparison.

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8. (previously presented) A method according to Claim 2, wherein the regulating variable is regulated by a single regulating circuit.

9-10. (cancelled)